	Application No.	Applicant(s)
Notice of Allowability	10/790,952	GOEL ET AL.
	Examiner	Art Unit
	Wishinh T Neuron	2674
	Kimbinh T. Nguyen	2671
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>application filed 03/02/04</u> .		
2. The allowed claim(s) is/are <u>1-25</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal P	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 8), 7. Examiner's Amendr	te nent/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for.Allowance
of Biological Material	9.	
		<i>:</i>

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DETAILED ACTION

1. Claims 1-25 are pending in the application.

Drawings

The drawing of Fig. 3 is objected to because informality: #204 and #202 should be 2. changed to "3 Tessellation Factors" and "Np tessellation Factors". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

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Claims 1, 12, 18 and 21 disclose a method and an apparatus for dual pass adaptive tessellation comprising: a vertex grouper tessellator operably coupled to receive primitive information and an index list, wherein the index list is received from a memory device; a shader processing unit coupled to the vertex grouper tessellator, wherein during a first pass, the shader processing unit receives primitive indices and an auto-index value for each of the plurality of primitive indices; a plurality of vertex shader input staging registers operably coupled to the shader processing unit, each of the plurality of vertex shaders input staging registers coupled to one of a plurality of vertex shaders such that in response to a shader sequence output, the vertex shaders generate tessellation factors; and the tessellation factors are provided to the vertex grouper tessellator such that the vertex grouper tessellator generates a per process vector output, a per primitive output and a per packet output. The closest prior art Boyd et al. (6,819,325) teaches assigning of vertex shader input registers to implicit data from the primitive tessellator. This controls the loading of vertex data from a stream, but rather is generated during primitive tessellation prior to the vertex shader; and Morgan et al. (5,821,940) teaches vertex index and index value and display list memory of polygon data to improve a method including a cache storage device and related control hardware operating in conjunction with a pipeline graphics display system; either singularly or in combination, the prior art fails to anticipate or render the above underlined limitations obvious.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Boyd et al. U.S. No. 6,819,325
 - Morgan et al. U.S. No. 5,821,940
 - Shaw U.S. No. 6,965,908
 - Zhu U.S. No. 6,697,063
 - Pulli et al. U.S. No. 6,078,331
 - Baker et al. EP 0930582 A2
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimbinh T. Nguyen whose telephone number is (571) 272-7644. The examiner can normally be reached on Monday to Thursday from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached at (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 17, 2006

KOMENNH T. NGUYEN